Amendment to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

- (Previously Presented) A method for the hydrogenation of unsaturated polymers
 containing double bonds, characterized in that a metal-containing colloid is first
 prepared under reducing conditions in the presence of an unsaturated polymer
 present in latex form, whereby the pH during the preparation of the metalcontaining colloid is in the range from 3 to 6, the colloid-containing latex mixture
 obtained is then hydrogenated, the metal-containing colloid is then separated
 from the latex and the polymer latex obtained is isolated.
- (Original) The method as claimed in claim 1, characterized in that unsaturated
 polymers containing double bonds which are used are those which are
 composed of conjugated dienes or of from 1 to 5% by weight of conjugated
 dienes and from 95 to 99% by weight of unsaturated monomers containing vinyl
 groups.
- (Previously Presented) The method as claimed in claim1, characterized in that the concentration of the polymer latex to be hydrogenated is from 1 to 50% by weight, based on the aqueous emulsion.
- Cancelled.
- (Previously Presented) The method as claimed in claim 1, characterized in that
 metal salts or metal complexes which are based on metals of group VIIIB of the
 Periodic Table of the Elements (Mendeleev) and of ruthenium or rhodium are
 used for the preparation of the metal-containing colloid.

(Previously Presented) The method as claimed in claim 1, characterized in that
the hydrogenation of the colloid-containing latex mixture is carried out at
pressures in the range of from 0.1 to 100 bar and at temperatures in the range
of from 25 to 100°C.

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